Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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Scaled data based on original data using

LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P1501357

Luminaire Tested: GSS-SB3A-722-U-T2LG

Issue Date: 07/20/2026

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501357
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB3A-722-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 3SQUARE 85W 70CRI 2200K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(78) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	10315.1 lumens
Efficiency:	N/A
Efficacy:	121.4 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

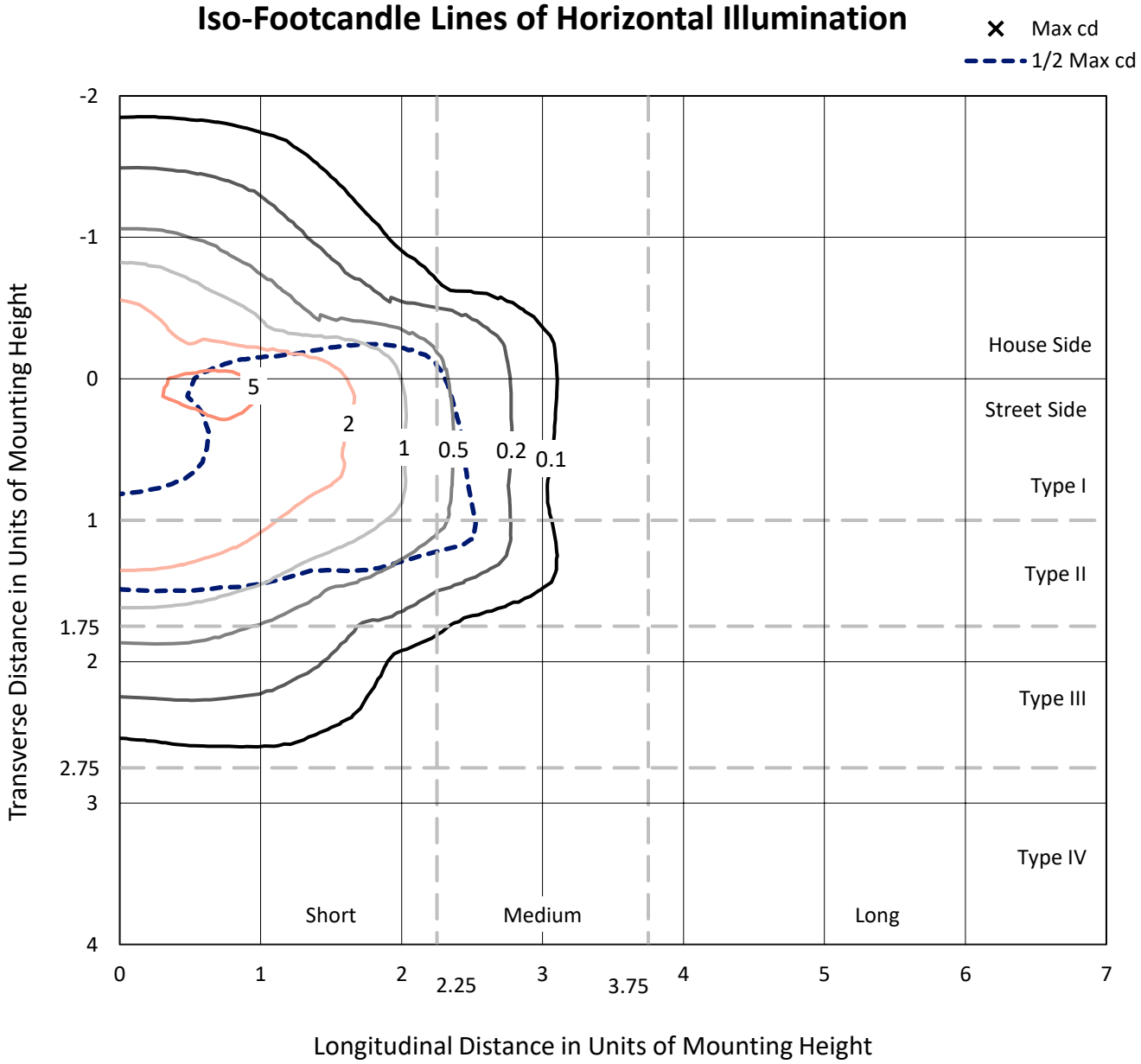
Input Watts (W):	85
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	11.0%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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CATALOG NUMBER: GSS-SB3A-722-U-T2LG

Iso-Footcandle Lines of Horizontal Illumination



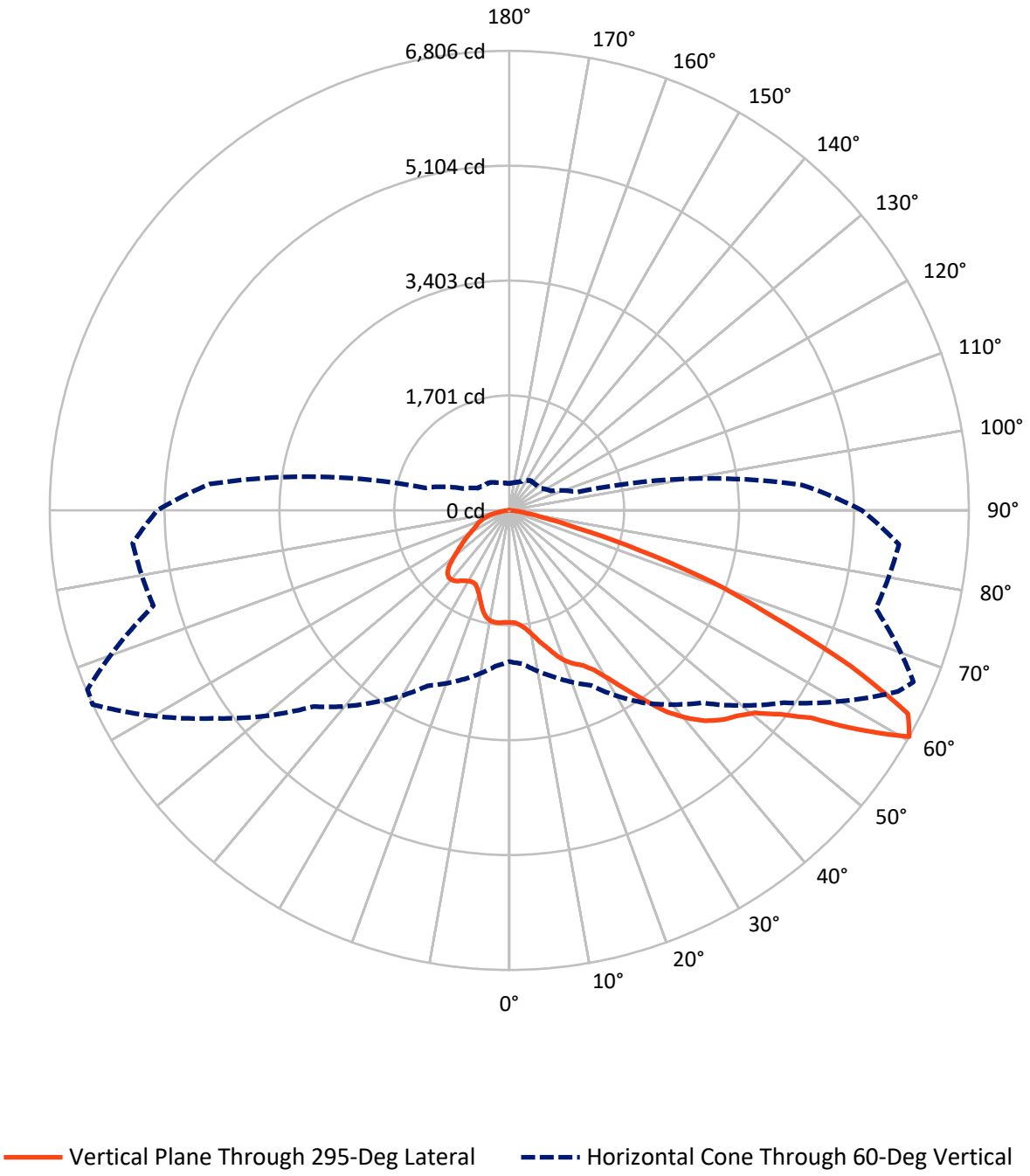
Based on 20 foot mounting height. Maximum calculated value = 6.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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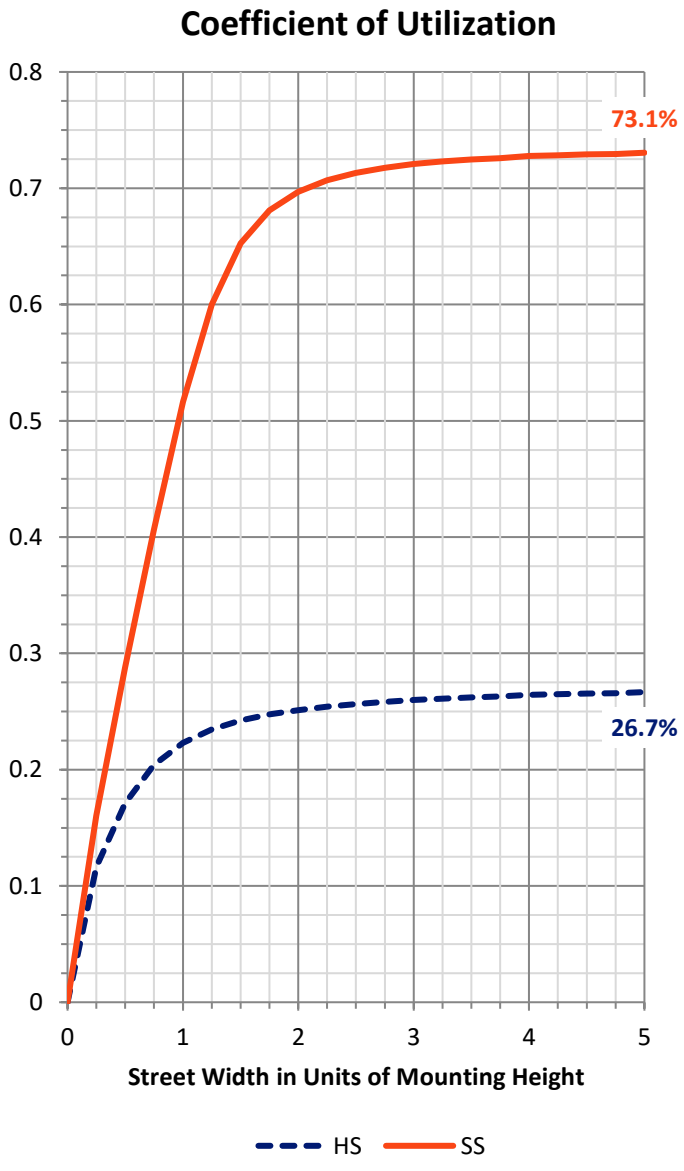
REPORT NUMBER: P1501357
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2773.9	0.0	2773.9
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	7541.2	0.0	7541.2
	% Fixture	73.1	0.0	73.1
Total	Lumens	10315.1	0.0	10315.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.1	1.5
10°-20°	448.6	4.3
20°-30°	849.7	8.2
30°-40°	1498.0	14.5
40°-50°	2215.3	21.5
50°-60°	2601.4	25.2
60°-70°	1884.8	18.3
70°-80°	581.3	5.6
80°-90°	80.0	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	10315.1	100.0
0°-180°	10315.1	100.0



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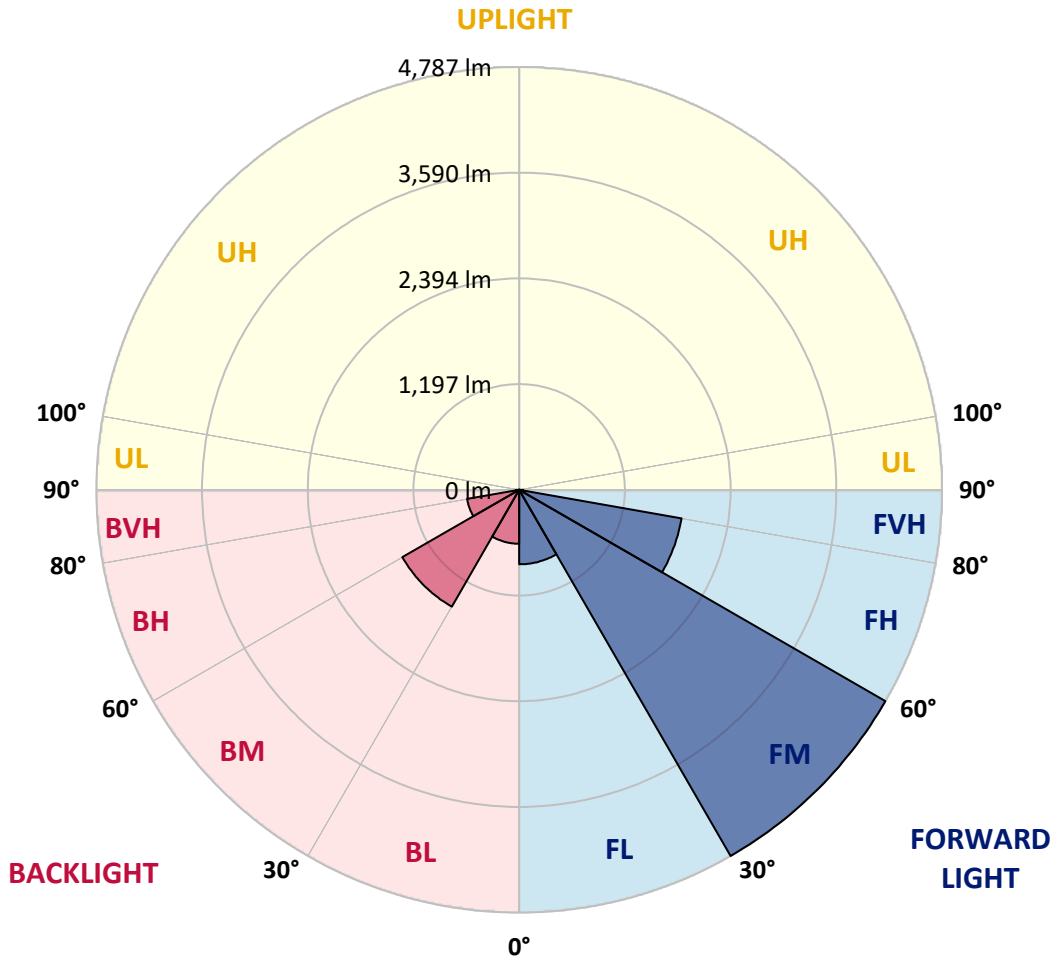
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	843.4	8.2			
FM	(30°-60°)	4787.3	46.4			
FH	(60°-80°)	1867.3	18.1			G2/5000
FVH	(80°-90°)	43.2	0.4			G1/100
BL	(0°-30°)	610.9	5.9	B2/1000		
BM	(30°-60°)	1527.4	14.8	B2/2500		
BH	(60°-80°)	598.7	5.8	B2/1000		G2/1000
BVH	(80°-90°)	36.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1659.7	1659.7	1659.7	1659.7	1659.7	1659.7	1659.7	1659.7	1659.7	1659.7	1659.7
2.5°	1692.6	1697.3	1690.2	1694.9	1694.9	1687.9	1685.5	1676.1	1680.8	1678.5	1676.1
5°	1732.5	1734.9	1730.2	1737.2	1737.2	1739.6	1737.2	1725.5	1725.5	1725.5	1720.8
7.5°	1720.8	1720.8	1723.1	1746.6	1770.1	1800.7	1800.7	1796.0	1800.7	1798.3	1777.2
10°	1622.0	1631.4	1652.6	1711.4	1767.8	1833.6	1878.3	1892.4	1892.4	1894.7	1859.5
12.5°	1445.7	1452.8	1502.1	1591.5	1709.0	1828.9	1937.0	2007.6	2014.6	2026.4	1979.4
15°	1288.2	1292.9	1328.2	1419.9	1553.9	1765.4	1970.0	2115.7	2139.2	2188.6	2118.1
17.5°	1302.3	1300.0	1309.4	1344.6	1441.0	1662.0	1962.9	2242.6	2285.0	2371.9	2310.8
20°	1387.0	1387.0	1394.0	1401.1	1436.3	1586.8	1911.2	2346.1	2428.4	2597.6	2527.1
22.5°	1521.0	1521.0	1518.6	1530.4	1530.4	1619.7	1913.5	2423.7	2545.9	2849.1	2781.0
25°	1706.7	1697.3	1697.3	1702.0	1680.8	1744.3	1972.3	2503.6	2663.4	3147.7	3088.9
27.5°	1915.9	1922.9	1918.2	1901.8	1873.6	1922.9	2113.4	2628.2	2795.1	3462.7	3439.2
30°	2143.9	2146.3	2151.0	2141.6	2118.1	2153.3	2334.3	2816.2	2969.0	3791.8	3843.5
32.5°	2367.2	2400.1	2388.4	2364.9	2374.3	2437.8	2607.0	3070.1	3227.6	4097.4	4280.8
35°	2651.7	2663.4	2710.4	2623.5	2625.8	2734.0	2954.9	3403.9	3556.7	4414.8	4718.0
37.5°	3065.4	3086.6	3065.4	2929.1	2907.9	3058.4	3293.4	3733.0	3843.5	4654.5	5124.7
40°	3472.1	3498.0	3533.2	3373.4	3239.4	3364.0	3613.1	3984.6	4099.8	4786.2	5395.0
42.5°	3808.3	3850.6	3813.0	3765.9	3643.7	3667.2	3836.5	4179.7	4294.9	4953.1	5667.7
45°	4092.7	4099.8	4116.2	4083.3	4022.2	4001.0	4026.9	4351.3	4478.2	5028.3	5801.7
47.5°	4210.2	4240.8	4254.9	4311.3	4374.8	4332.5	4189.1	4431.2	4546.4	5023.6	5844.0
50°	4146.8	4177.3	4252.6	4386.6	4539.4	4614.6	4379.5	4541.7	4671.0	5108.2	5931.0
52.5°	3979.9	4012.8	4135.0	4287.8	4544.1	4715.7	4647.5	4772.1	4896.7	5258.7	6076.8
55°	3575.5	3624.9	3796.5	4050.4	4403.0	4661.6	4929.6	5110.6	5246.9	5439.7	6227.2
57.5°	2987.8	3039.6	3232.3	3613.1	4142.1	4438.3	5011.9	5745.3	5806.4	5656.0	6241.3
60°	*2237.9*	*2280.3*	*2552.9*	*2858.5*	*3479.2*	*4029.2*	*4964.8*	*6347.1*	*6502.3*	*5618.4*	*5792.3*
62.5°	1772.5	1824.2	2066.3	2207.4	2651.7	3328.7	4800.3	6514.0	6648.0	5308.1	5167.0
65°	1384.6	1419.9	1645.5	1847.7	1955.8	2273.2	4113.9	5698.3	5818.2	4802.6	4264.3
67.5°	914.5	968.5	1236.5	1513.9	1570.3	1445.7	2830.3	4384.2	4440.6	3817.7	3206.5
70°	655.9	681.7	881.5	1177.7	1262.4	968.5	1542.1	3319.3	3335.8	2562.3	2160.4
72.5°	446.6	451.3	599.4	902.7	1006.1	702.9	848.6	2186.2	2129.8	1264.7	1236.5
75°	303.3	308.0	383.2	601.8	712.3	489.0	552.4	1191.8	1144.8	698.2	749.9
77.5°	204.5	209.2	263.3	404.3	474.9	338.5	404.3	630.0	618.3	463.1	402.0
80°	155.2	162.2	195.1	258.6	331.5	197.5	230.4	298.5	303.3	246.8	204.5
82.5°	87.0	96.4	117.5	131.6	213.9	110.5	110.5	178.7	171.6	152.8	110.5
85°	37.6	40.0	47.0	49.4	87.0	47.0	40.0	77.6	79.9	75.2	35.3
87.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	9.4	9.4	9.4	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1659.7	1659.7	1659.7	1659.7	1659.7	1659.7	1659.7	1659.7	1659.7	1659.7	1659.7
2.5°	1664.4	1678.5	1664.4	1657.3	1657.3	1645.5	1640.8	1640.8	1624.4	1631.4	1626.7
5°	1702.0	1706.7	1690.2	1669.1	1640.8	1617.3	1584.4	1542.1	1516.3	1513.9	1516.3
7.5°	1760.7	1763.1	1718.4	1671.4	1600.9	1516.3	1415.2	1332.9	1260.0	1248.3	1262.4
10°	1843.0	1838.3	1772.5	1662.0	1513.9	1335.2	1180.1	1104.9	1062.6	1060.2	1057.9
12.5°	1953.5	1922.9	1821.9	1622.0	1363.5	1156.6	1076.7	1072.0	1083.7	1093.1	1095.5
15°	2080.4	2040.5	1861.8	1544.5	1210.7	1090.8	1095.5	1135.4	1149.5	1158.9	1158.9
17.5°	2237.9	2186.2	1906.5	1434.0	1133.1	1104.9	1137.8	1175.4	1198.9	1208.3	1206.0
20°	2447.2	2339.0	1941.7	1328.2	1111.9	1128.4	1156.6	1194.2	1217.7	1229.5	1229.5
22.5°	2656.4	2522.4	1948.8	1255.3	1111.9	1130.7	1156.6	1194.2	1220.1	1231.8	1229.5
25°	2940.8	2757.5	1951.1	1203.6	1114.3	1119.0	1142.5	1175.4	1213.0	1224.8	1229.5
27.5°	3244.1	3016.1	1962.9	1191.8	1104.9	1102.5	1119.0	1149.5	1187.1	1217.7	1220.1
30°	3620.2	3307.5	1967.6	1203.6	1107.2	1076.7	1088.4	1119.0	1158.9	1189.5	1198.9
32.5°	3989.3	3577.9	1958.2	1229.5	1111.9	1060.2	1062.6	1081.4	1123.7	1144.8	1161.3
35°	4379.5	3864.7	1941.7	1264.7	1114.3	1053.1	1032.0	1041.4	1069.6	1072.0	1079.0
37.5°	4685.1	4078.6	1892.4	1311.7	1119.0	1027.3	985.0	977.9	966.2	942.7	947.4
40°	4936.6	4222.0	1810.1	1335.2	1107.2	996.7	926.2	893.3	848.6	813.4	820.4
42.5°	5117.6	4318.4	1711.4	1339.9	1088.4	945.0	858.0	801.6	752.2	714.6	717.0
45°	5197.6	4309.0	1605.6	1304.7	1043.7	881.5	794.6	740.5	686.4	646.5	641.8
47.5°	5199.9	4217.3	1459.8	1220.1	968.5	808.7	735.8	677.0	632.4	604.2	601.8
50°	5218.7	4165.6	1323.5	1097.8	869.8	731.1	684.1	625.3	599.4	559.5	547.7
52.5°	5336.3	4250.2	1229.5	963.8	778.1	674.7	639.4	587.7	545.4	519.5	517.2
55°	5526.7	4396.0	1177.7	862.7	691.1	620.6	597.1	552.4	514.8	489.0	481.9
57.5°	5550.2	4471.2	1116.6	768.7	620.6	578.3	568.9	519.5	465.5	446.6	439.6
60°	*5221.1*	*4344.2*	*1041.4*	*681.7*	*568.9*	*545.4*	*540.7*	*474.9*	*430.2*	*406.7*	*397.3*
62.5°	4772.1	4026.9	926.2	601.8	528.9	512.5	493.7	441.9	385.5	359.7	352.6
65°	3899.9	3385.1	787.5	547.7	489.0	470.2	465.5	394.9	357.3	343.2	340.9
67.5°	2954.9	2719.9	693.5	507.8	446.6	439.6	423.1	399.6	383.2	366.7	362.0
70°	2089.8	1962.9	590.0	456.1	404.3	392.6	460.8	434.9	376.1	355.0	352.6
72.5°	1267.1	1231.8	510.1	409.0	347.9	366.7	425.5	392.6	338.5	312.7	303.3
75°	799.3	731.1	427.8	347.9	277.4	298.5	371.4	350.3	291.5	265.6	258.6
77.5°	434.9	404.3	322.1	284.4	218.6	242.1	324.4	289.1	232.7	253.9	225.7
80°	190.4	211.6	213.9	164.6	145.7	178.7	232.7	225.7	178.7	181.0	150.4
82.5°	91.7	119.9	138.7	112.8	82.3	105.8	155.2	129.3	119.9	112.8	108.1
85°	28.2	44.7	61.1	54.1	37.6	44.7	72.9	70.5	84.6	72.9	68.2
87.5°	9.4	9.4	7.1	7.1	7.1	9.4	11.8	7.1	2.4	2.4	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1659.7	1659.7	1659.7	1659.7	1659.7	1659.7	1659.7	1659.7	1659.7	1659.7	1659.7
2.5°	1624.4	1626.7	1626.7	1629.1	1629.1	1636.1	1645.5	1654.9	1647.9	1657.3	1659.7
5°	1511.6	1523.3	1532.7	1568.0	1596.2	1619.7	1645.5	1669.1	1676.1	1680.8	1692.6
7.5°	1245.9	1278.8	1339.9	1419.9	1509.2	1596.2	1654.9	1716.1	1725.5	1737.2	1753.7
10°	1060.2	1074.3	1116.6	1198.9	1358.8	1530.4	1673.8	1770.1	1810.1	1833.6	1850.1
12.5°	1090.8	1081.4	1074.3	1086.1	1189.5	1410.5	1662.0	1847.7	1922.9	1948.8	1970.0
15°	1163.6	1154.2	1128.4	1095.5	1107.2	1283.5	1622.0	1920.6	2040.5	2082.8	2127.5
17.5°	1206.0	1196.5	1175.4	1140.1	1109.6	1177.7	1546.8	1986.4	2226.2	2277.9	2341.4
20°	1229.5	1220.1	1198.9	1163.6	1128.4	1137.8	1450.4	2068.7	2437.8	2520.0	2614.1
22.5°	1234.2	1222.4	1198.9	1163.6	1142.5	1135.4	1358.8	2118.1	2665.8	2792.7	2900.9
25°	1231.8	1210.7	1180.1	1154.2	1142.5	1140.1	1295.3	2146.3	2912.6	3114.8	3237.0
27.5°	1215.4	1189.5	1158.9	1140.1	1135.4	1149.5	1267.1	2179.2	3201.8	3460.3	3655.5
30°	1196.5	1158.9	1121.3	1114.3	1126.0	1170.7	1290.6	2190.9	3505.0	3836.5	4036.3
32.5°	1147.2	1119.0	1081.4	1079.0	1107.2	1187.1	1344.6	2174.5	3773.0	4212.6	4464.1
35°	1076.7	1060.2	1039.0	1046.1	1090.8	1201.2	1382.3	2122.8	4017.5	4562.9	4856.7
37.5°	952.1	963.8	975.6	992.0	1048.4	1198.9	1398.7	2040.5	4219.6	4842.6	5218.7
40°	813.4	853.3	890.9	933.3	1008.5	1180.1	1403.4	1939.4	4337.2	5054.2	5540.8
42.5°	726.4	764.0	811.0	872.1	954.4	1137.8	1398.7	1826.6	4374.8	5199.9	5745.3
45°	646.5	691.1	749.9	813.4	907.4	1076.7	1356.4	1704.3	4393.6	5268.1	5832.3
47.5°	604.2	630.0	684.1	747.5	846.3	1001.4	1274.1	1615.0	4365.4	5282.2	5938.1
50°	554.8	590.0	625.3	686.4	782.8	907.4	1175.4	1563.3	4412.4	5420.9	6105.0
52.5°	517.2	536.0	573.6	630.0	700.5	820.4	1081.4	1521.0	4541.7	5561.9	6278.9
55°	489.0	510.1	533.6	580.6	634.7	733.4	985.0	1457.5	4692.2	5712.4	6452.9
57.5°	444.3	458.4	491.3	540.7	575.9	648.8	872.1	1382.3	4680.4	5594.9	6152.0
60°	*404.3*	*418.4*	*453.7*	*503.1*	*524.2*	*573.6*	*761.7*	*1285.9*	*4454.7*	*5211.7*	*5597.2*
62.5°	359.7	376.1	418.4	453.7	472.5	510.1	646.5	1109.6	3984.6	4635.7	4948.4
65°	340.9	350.3	378.5	420.8	418.4	453.7	545.4	872.1	3206.5	3542.6	3827.1
67.5°	362.0	376.1	371.4	383.2	376.1	394.9	489.0	700.5	2520.0	2668.1	2832.7
70°	357.3	390.2	406.7	383.2	329.1	350.3	423.1	559.5	1803.0	1788.9	1781.9
72.5°	312.7	345.6	392.6	416.1	322.1	291.5	366.7	484.3	1156.6	1151.9	1041.4
75°	265.6	289.1	345.6	376.1	277.4	235.1	315.0	411.4	691.1	700.5	625.3
77.5°	244.5	232.7	289.1	331.5	225.7	181.0	253.9	310.3	380.8	385.5	357.3
80°	176.3	169.3	216.3	242.1	171.6	129.3	143.4	192.8	204.5	183.4	190.4
82.5°	112.8	115.2	129.3	155.2	105.8	70.5	98.7	129.3	110.5	89.3	105.8
85°	72.9	82.3	68.2	79.9	32.9	32.9	42.3	56.4	37.6	25.9	28.2
87.5°	0.0	0.0	4.7	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1501357
CATALOG NUMBER: GSS-SB3A-722-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	1659.7	1659.7	*1659.7*	1659.7	1659.7	1659.7	1659.7	1659.7	1659.7	1659.7
2.5°	1666.7	1664.4	*1664.4*	1669.1	1680.8	1685.5	1692.6	1690.2	1697.3	1692.6
5°	1699.6	1702.0	*1709.0*	1711.4	1718.4	1727.8	1730.2	1727.8	1732.5	1732.5
7.5°	1765.4	1774.8	*1770.1*	1781.9	1772.5	1760.7	1741.9	1727.8	1716.1	1720.8
10°	1875.9	1871.2	*1868.9*	1847.7	1805.4	1744.3	1694.9	1640.8	1631.4	1622.0
12.5°	1998.2	1993.5	*1993.5*	1920.6	1800.7	1673.8	1560.9	1476.3	1448.1	1445.7
15°	2169.8	2139.2	*2111.0*	1958.2	1718.4	1502.1	1370.5	1304.7	1288.2	1288.2
17.5°	2383.7	2303.8	*2256.7*	1930.0	1584.4	1389.3	1311.7	1295.3	1290.6	1302.3
20°	2649.3	2447.2	*2379.0*	1866.5	1535.1	1403.4	1365.8	1368.2	1370.5	1387.0
22.5°	2940.8	2578.8	*2466.0*	1866.5	1584.4	1492.7	1473.9	1499.8	1506.8	1521.0
25°	3265.2	2696.3	*2543.5*	1965.3	1730.2	1662.0	1638.5	1664.4	1683.2	1706.7
27.5°	3629.6	2818.6	*2677.5*	2143.9	1918.2	1875.9	1850.1	1861.8	1887.7	1915.9
30°	3956.4	3023.1	*2882.1*	2416.6	2174.5	2122.8	2078.1	2096.9	2125.1	2143.9
32.5°	4245.5	3272.3	*3152.4*	2703.4	2468.3	2379.0	2329.6	2324.9	2381.3	2367.2
35°	4511.1	3566.1	*3450.9*	3030.2	2766.9	2656.4	2590.6	2675.2	2637.6	2651.7
37.5°	4720.4	3871.7	*3780.1*	3342.8	3077.2	2926.7	2886.8	2990.2	3049.0	3065.4
40°	4892.0	4137.4	*4041.0*	3653.1	3361.6	3251.1	3314.6	3486.2	3479.2	3472.1
42.5°	5023.6	4365.4	*4259.6*	3888.2	3634.3	3655.5	3704.8	3820.0	3848.2	3808.3
45°	5082.4	4508.8	*4424.2*	4073.9	3944.6	4066.8	4088.0	4137.4	4118.6	4092.7
47.5°	5150.6	4635.7	*4546.4*	4243.2	4280.8	4400.7	4358.3	4318.4	4250.2	4210.2
50°	5265.7	4786.2	*4711.0*	4490.0	4626.3	4586.4	4421.8	4332.5	4193.8	4146.8
52.5°	5484.4	5070.6	*5014.2*	4880.2	4788.5	4558.2	4358.3	4198.5	4043.3	3979.9
55°	5679.5	5456.2	*5423.2*	5244.6	4739.2	4410.1	4142.1	3895.2	3629.6	3575.5
57.5°	5792.3	6095.6	*6133.2*	5399.7	4513.5	4073.9	3679.0	3284.0	3032.5	2987.8
60°	*5456.2*	*6786.7*	*6805.5*	*5369.2*	*4106.8*	*3467.4*	*2865.6*	*2585.9*	*2315.5*	*2237.9*
62.5°	4993.1	6643.3	*6626.8*	5185.8	3269.9	2529.4	2176.8	2045.2	1836.0	1772.5
65°	4292.5	5533.7	*5552.5*	4480.6	2174.5	1828.9	1828.9	1662.0	1429.3	1384.6
67.5°	3498.0	4266.7	*4224.4*	2905.6	1335.2	1464.5	1535.1	1295.3	968.5	914.5
70°	2273.2	3258.2	*3199.4*	1676.1	839.2	1220.1	1208.3	973.2	693.5	655.9
72.5°	977.9	1883.0	*2002.9*	855.7	632.4	982.6	963.8	681.7	463.1	446.6
75°	590.0	947.4	*1032.0*	545.4	460.8	740.5	667.6	432.5	315.0	303.3
77.5°	373.8	519.5	*514.8*	409.0	345.6	500.7	449.0	298.5	213.9	204.5
80°	216.3	256.2	*265.6*	256.2	232.7	357.3	286.8	216.3	166.9	155.2
82.5°	138.7	159.9	*162.2*	124.6	129.3	230.4	155.2	126.9	96.4	87.0
85°	61.1	68.2	*65.8*	42.3	42.3	94.0	54.1	51.7	37.6	37.6
87.5°	2.4	4.7	*2.4*	2.4	2.4	9.4	4.7	7.1	7.1	7.1
90°	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-2

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-722-U-5WQ

Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

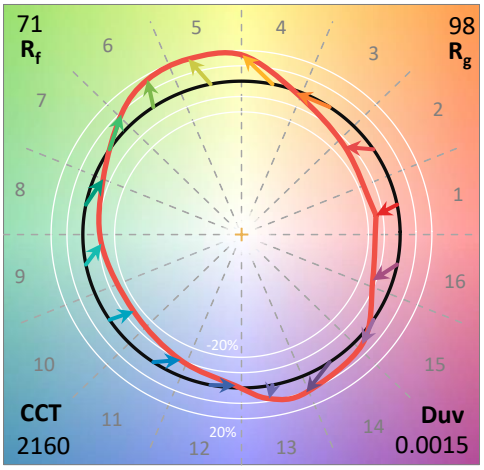
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-2
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	10/15/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGraw-Edison
Catalog Number:	**GSS-SB1A-722-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 2200K CCT 26 LEDS

Spectral Parameters

CCT (K):	2160
CIE u':	0.2927
CIE v':	0.5388
Duv:	0.0015
CIE x:	0.5130
CIE y:	0.4197
CIE z:	0.0674
Peak Wavelength (nm):	609
Dominant Wavelength (nm):	587
Purity:	79.96089
Rf:	70.6
Rg:	97.6

CRI (Ra):	71.9
R1:	68.7
R2:	82.6
R3:	95.5
R4:	66.4
R5:	65.4
R6:	75.9
R7:	77.2
R8:	43.5
R9:	-17.8
R10:	60.5
R11:	60.2
R12:	48.2
R13:	70.7
R14:	96.8
R15:	61.8



Test Conditions

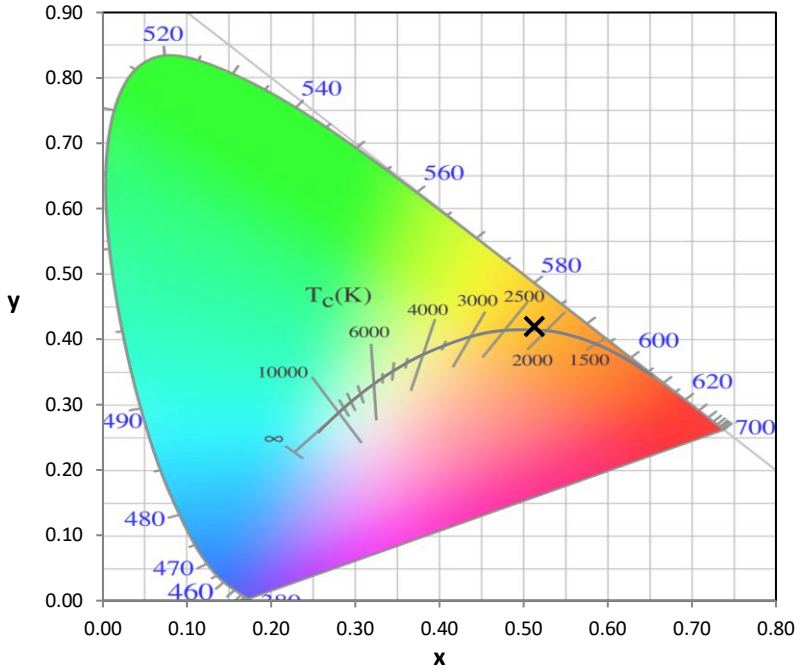
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-2

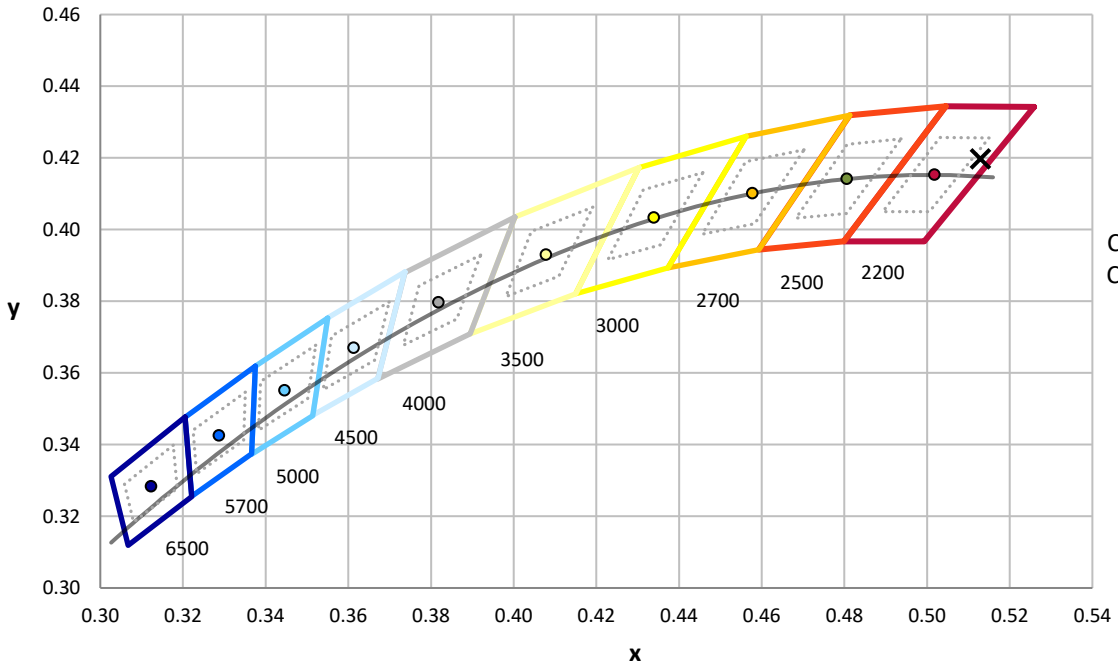
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2407-184-2

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

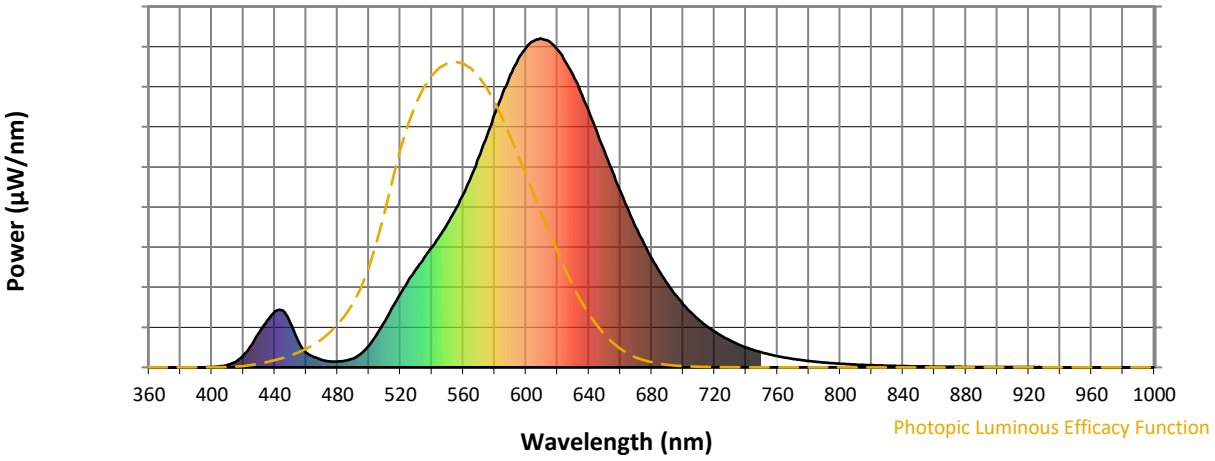


CCT = 2160K
CIE x = 0.5130
CIE y = 0.4197
Duv = 0.0015

Point lies inside the ANSI 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

Photopic Flux vs. Wavelength

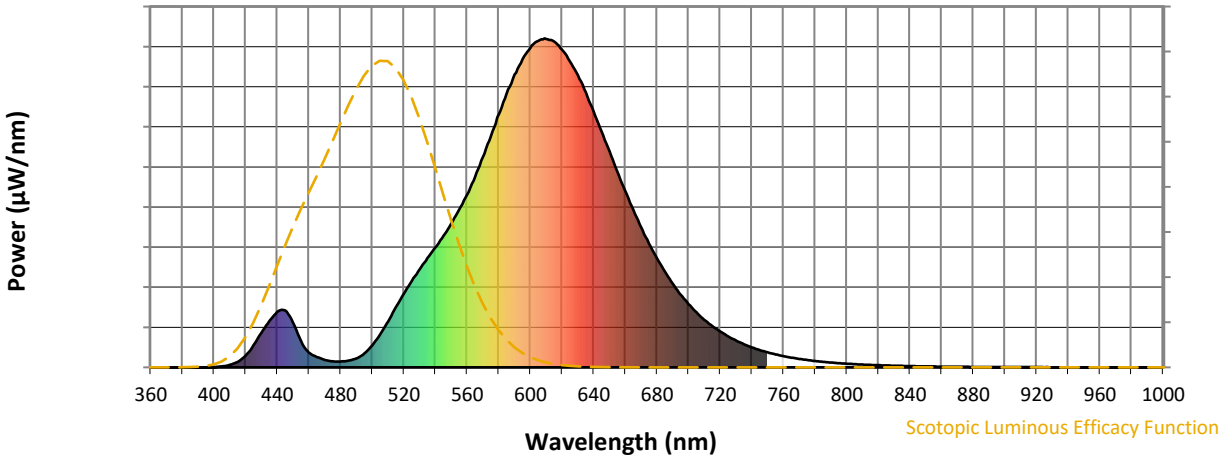


Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

Scotopic Flux vs. Wavelength

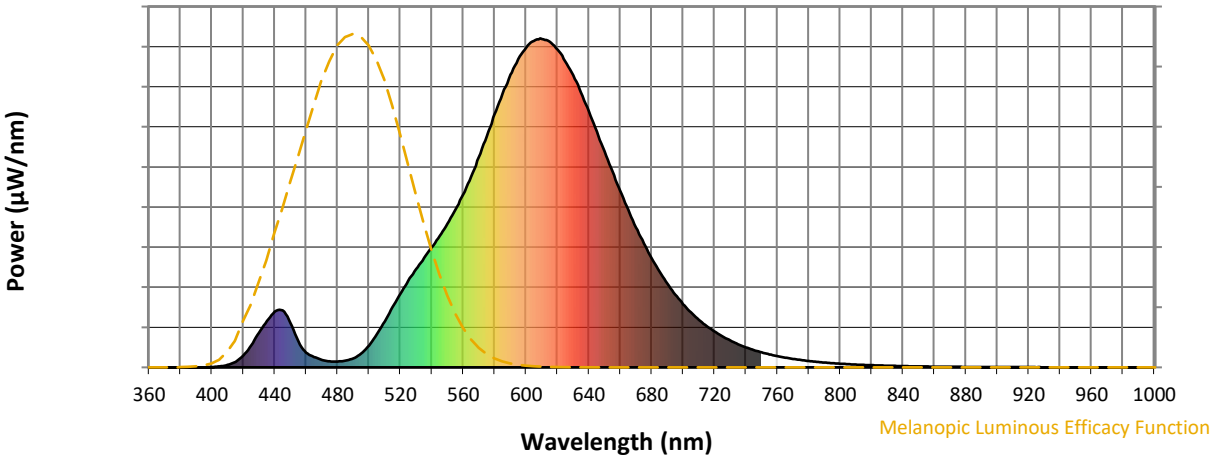


Scotopic Lumens: NR **S/P: 0.8**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.21**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

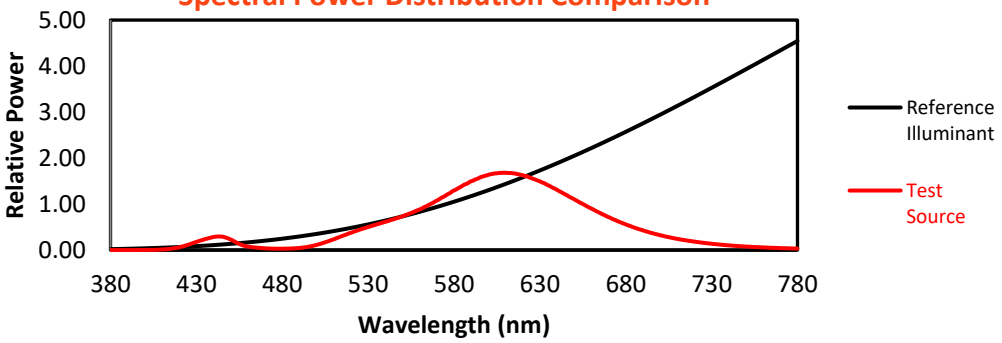
REPORT NUMBER: SP1-2407-184-2

TM-30-18

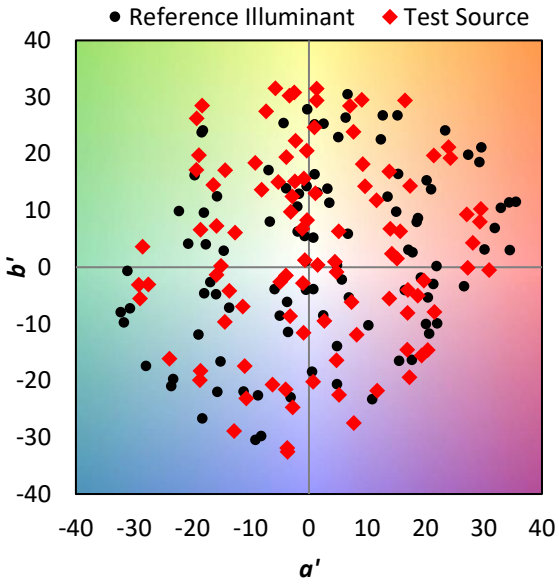
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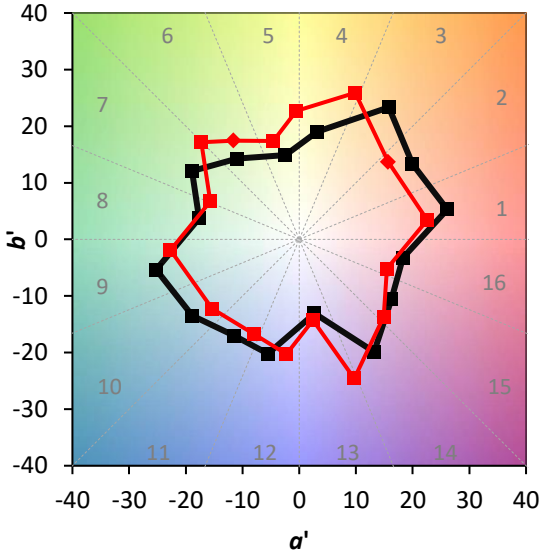
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R_g = 97.6
CIE R_a = 71.9
R_9 = -17.8

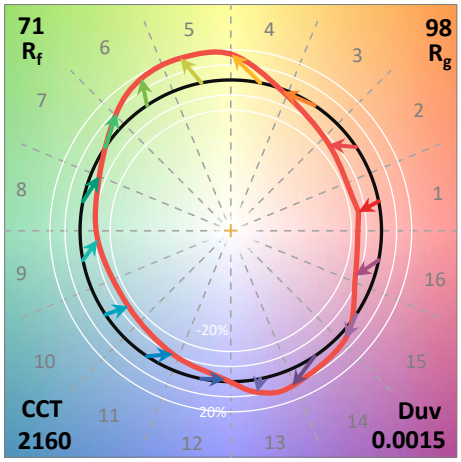
Spectral Power Distribution Comparison

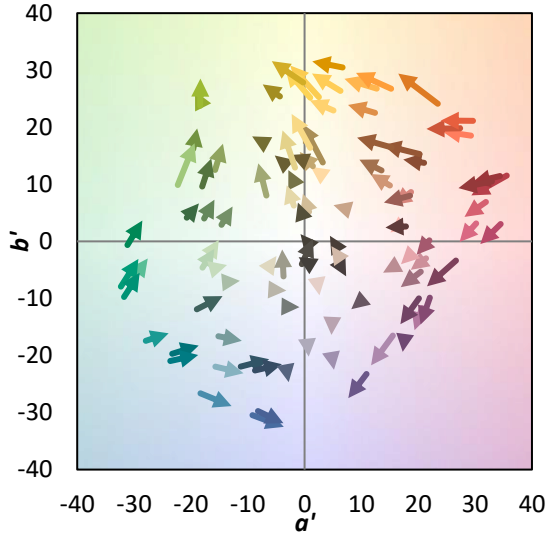


Color Vector Graphics







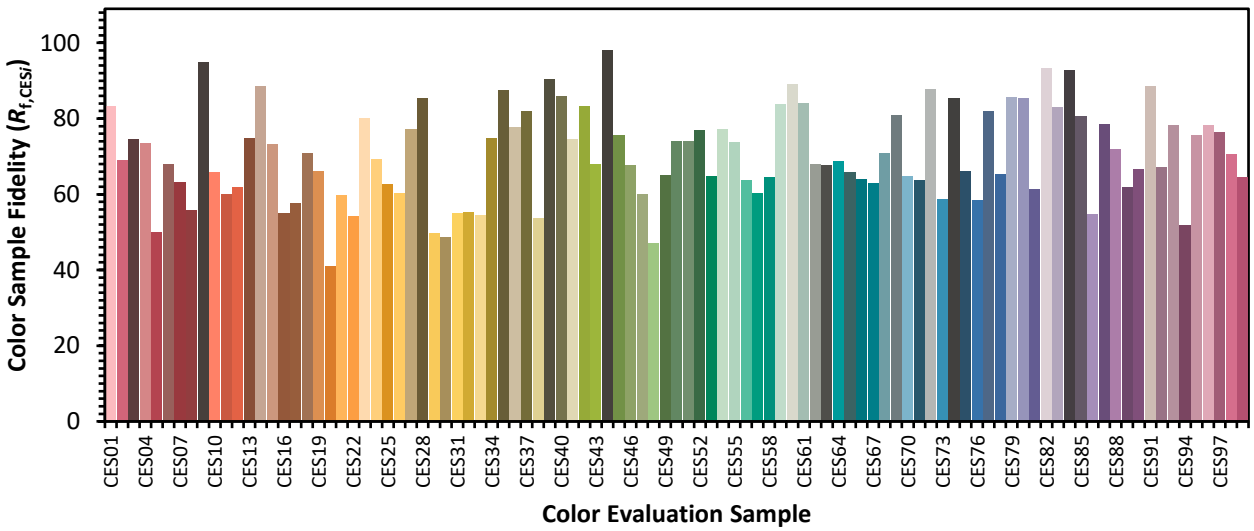


REPORT NUMBER: SP1-2407-184-2

TM-30-18

Individual Sample Fidelity Index ($R_{f,i}$)

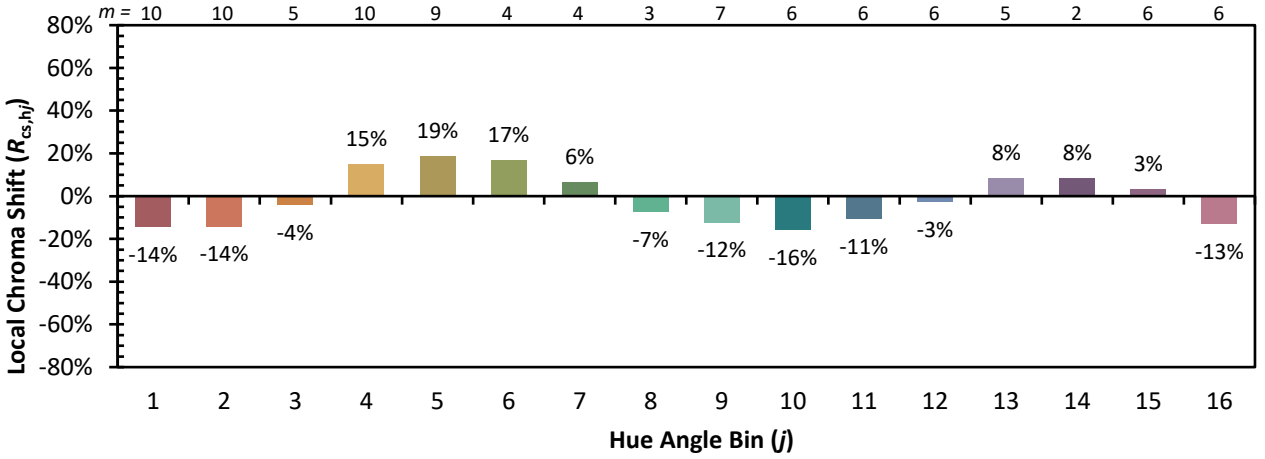
CES01 = 87	CES26 = 60	CES51 = 74	CES76 = 58
CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82 = 93
CES08 = 43	CES33 = 55	CES58 = 64	CES83 = 83
CES09 = 29	CES34 = 75	CES59 = 84	CES84 = 93
CES10 = 79	CES35 = 88	CES60 = 89	CES85 = 81
CES11 = 62	CES36 = 78	CES61 = 84	CES86 = 55
CES12 = 68	CES37 = 82	CES62 = 68	CES87 = 79
CES13 = 45	CES38 = 54	CES63 = 68	CES88 = 72
CES14 = 75	CES39 = 90	CES64 = 69	CES89 = 62
CES15 = 72	CES40 = 86	CES65 = 66	CES90 = 67
CES16 = 49	CES41 = 75	CES66 = 64	CES91 = 89
CES17 = 51	CES42 = 83	CES67 = 63	CES92 = 67
CES18 = 57	CES43 = 68	CES68 = 71	CES93 = 78
CES19 = 74	CES44 = 98	CES69 = 81	CES94 = 52
CES20 = 68	CES45 = 76	CES70 = 65	CES95 = 76
CES21 = 89	CES46 = 68	CES71 = 64	CES96 = 78
CES22 = 81	CES47 = 60	CES72 = 88	CES97 = 76
CES23 = 92	CES48 = 47	CES73 = 59	CES98 = 71
CES24 = 92	CES49 = 65	CES74 = 85	CES99 = 65
CES25 = 74	CES50 = 74	CES75 = 66	

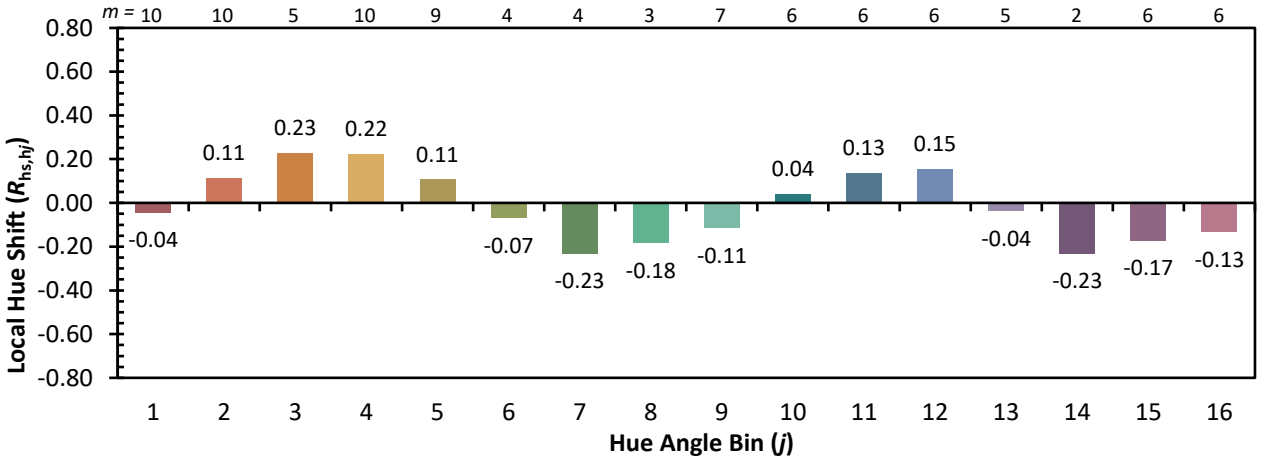


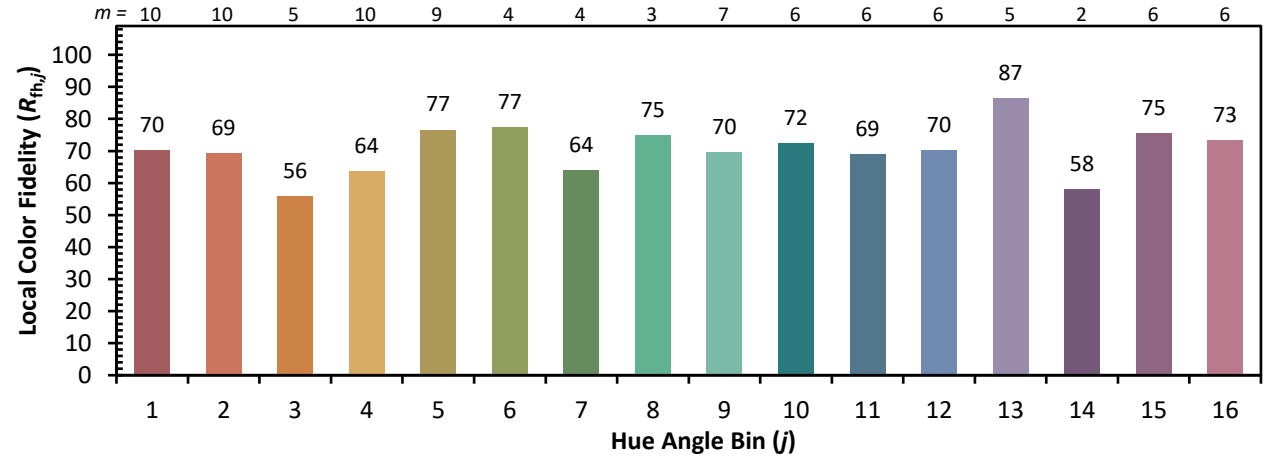
REPORT NUMBER: SP1-2407-184-2

TM-30-18

Color Rendition by Hue-Angle Bin



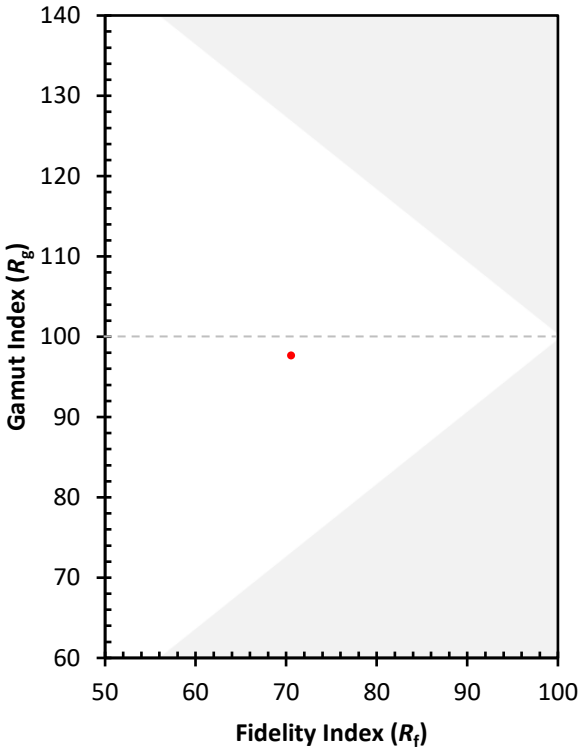


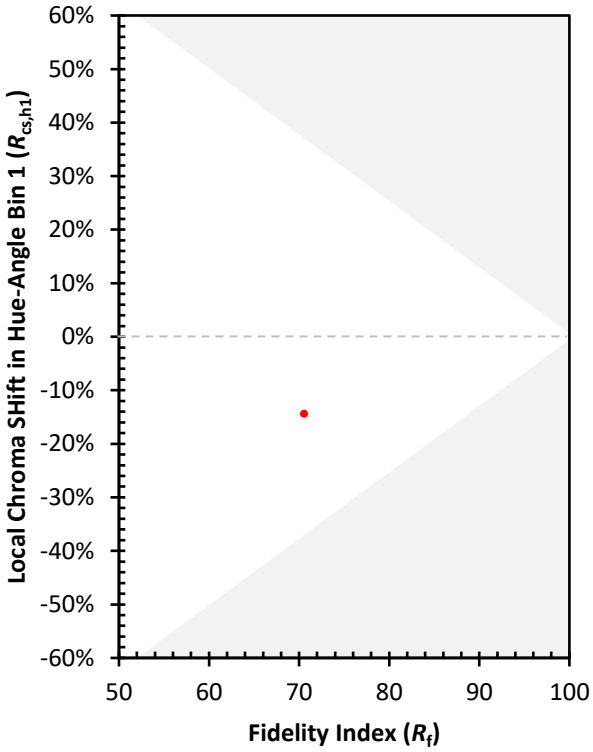


REPORT NUMBER: SP1-2407-184-2

TM-30-18

Measure Comparisons





(END OF REPORT)